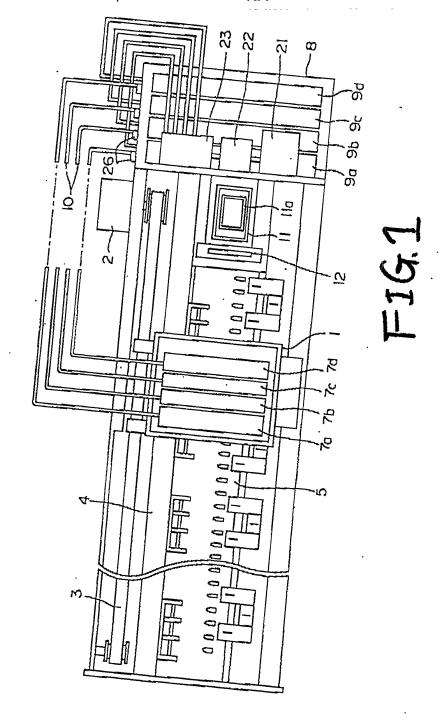
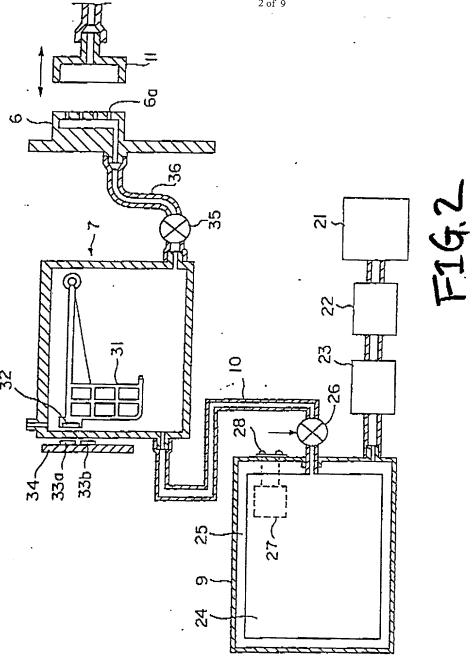
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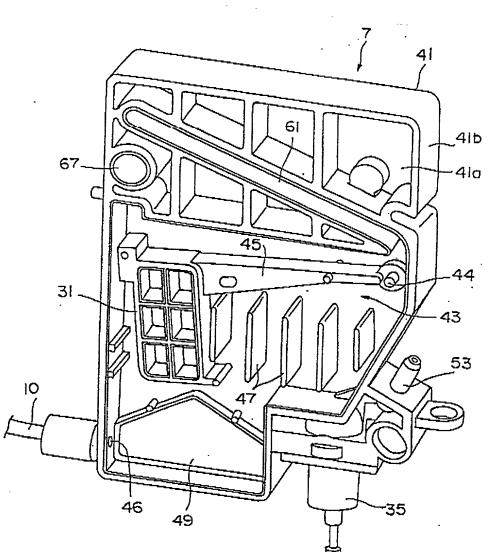
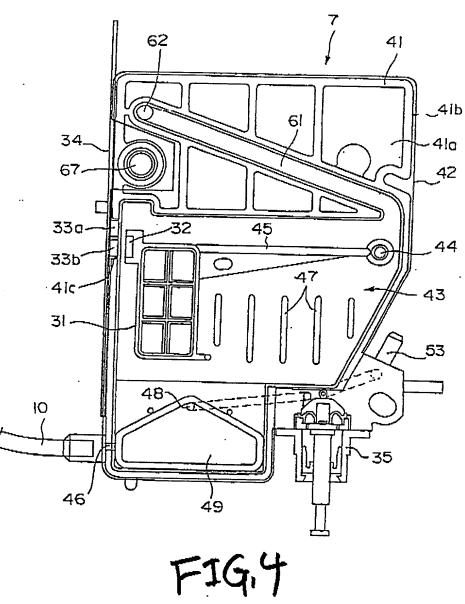


FIG.3

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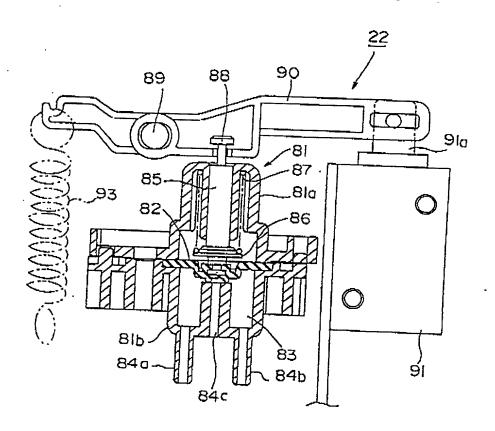
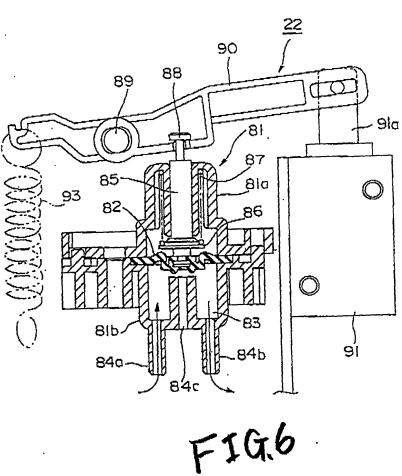


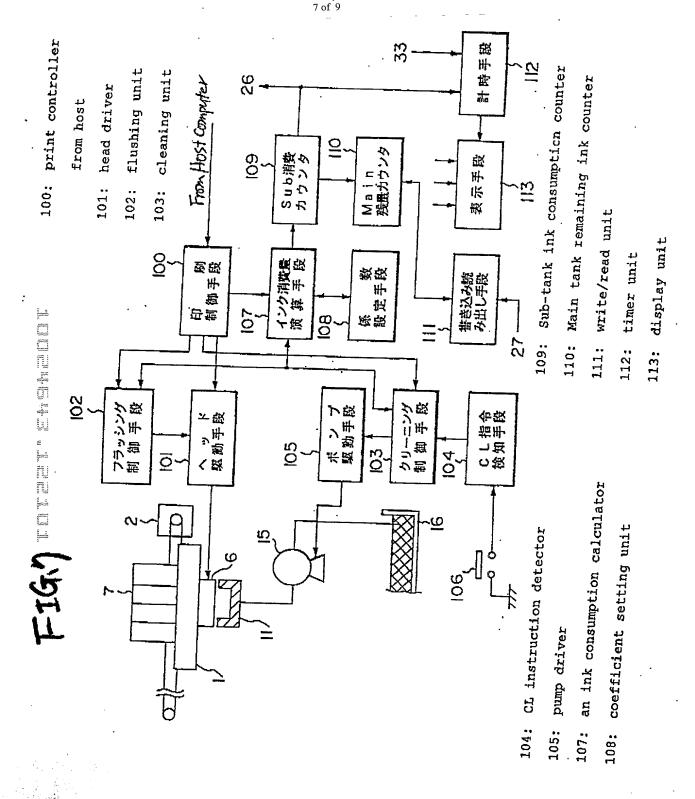
FIG.5

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INK JET RECORDING APPARATUS, AND METHOD OF SUPPLYING INK TO SUB-TANK OF THE INK JET RECORDING APPARATUS Filed: December 21, 2001 Darryl Mexic 202-293-7060 8 of 9 START FIG. 8 EVERY 5 SECONDS DURING PRINTING RESET SUPPLY HALT FLAG. SUPPLY HALT set FLAG? 511 Reset 514 CLOSE SUPPLY <u>Overflow</u> DETECT VALVE. Full INK LEVEL. 513 Low RETURN 518 INK IN SUB TANK EQUAL TO OR No GREATER THAN VALUE CH*? Yes RETURN (A) Overflow DETECT Full INK LEVEL 515 519 SET SUPPLY LOW HALT FLAG OPEN SUPPLY VALVE 522 CLOSE SUPPLY **LSZ**0 VALVE CLOSE SUPPLY LOW LEVEL TIME PERIOD > Vo AVTAE 523 SET TIME? SUB-TANK INK CONSUMPTION Yes OPEN RELIEF VALVE COUNTER = 0 (Å) CARTRIDGE IN LOW INK STATE? \$25 Ye 5 S24 SUBTRACT (LATEST) INK CONSUMPTION COUNTER VALUE FROM CARTRIDGE REMAINING RETURN **SZ6** CLOSE SUPPLY VALVE (ERROR: SUB-TANK OVERFLOW) INK QUANTITY TOTAL 527 SET SUPPLY RETURN HALT FLAG (ERROR: SUPPLY FAILURE) RETURN RETURN (ERROR: INK-OUT)

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